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Convairiety

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SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA DAINGERFIELD AND FORT WORTH, TEXAS

Two More Days Left to Sign up In Bond Buying

Convair Pomona, Astronautics and San Diego employees not now buying U. S. Savings Bonds have just two more days to complete and return authorization cards now in their hands.

The week-long 1958 campaign to encourage participation in the payroll deduction method of buying Savings Bonds ends this Friday (May 2).

Supervisors have been contacting non-buyers this week and explaining the advantages of the plan, both as an easy method for individual saving as well as a non-inflationary means of government financing.

The campaign this year is based on a "Share in America" theme, with the Treasury Department urging the nation's citizens to become shareholders in America, and at the same time receive a good return on their investment.

At maturity, Savings Bonds pay 3¼ per cent interest compounded semi-annually, or they may be redeemed at cost, plus accrued interest, any time after 60 days from the purchase date.

Minimum weekly deductions are $1.25 for a $25 bond, $2.50 for a $50 bond and $5 for a $100 bond. These minimum amounts are doubled for salaried employees. When deductions equal the purchase price, bonds are automatically mailed to employees at their homes.

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Astro Making Strong Bid For Bond Buying To Boost Average

Convair Astronautics is leaving no stones unturned this week in a final effort to meet or exceed averages posted by other Convair divisions in the drive.

Astro began the campaign with the lowest percentage of bond buyers among all Convair divisions.

Personal letters from J. R. Dempsey, manager, and Dick Mitchell, chief of employee services, urging help in the drive were widely distributed last week.

Departments and functions appointed their own bond chairmen. Individual canvassers planned to call on all non-buyers personally. Posters appeared through Astro work areas and two huge "thermometers" were erected to show daily progress in the drive.

Final plans for the concentrated effort were worked out at a meeting last Friday.

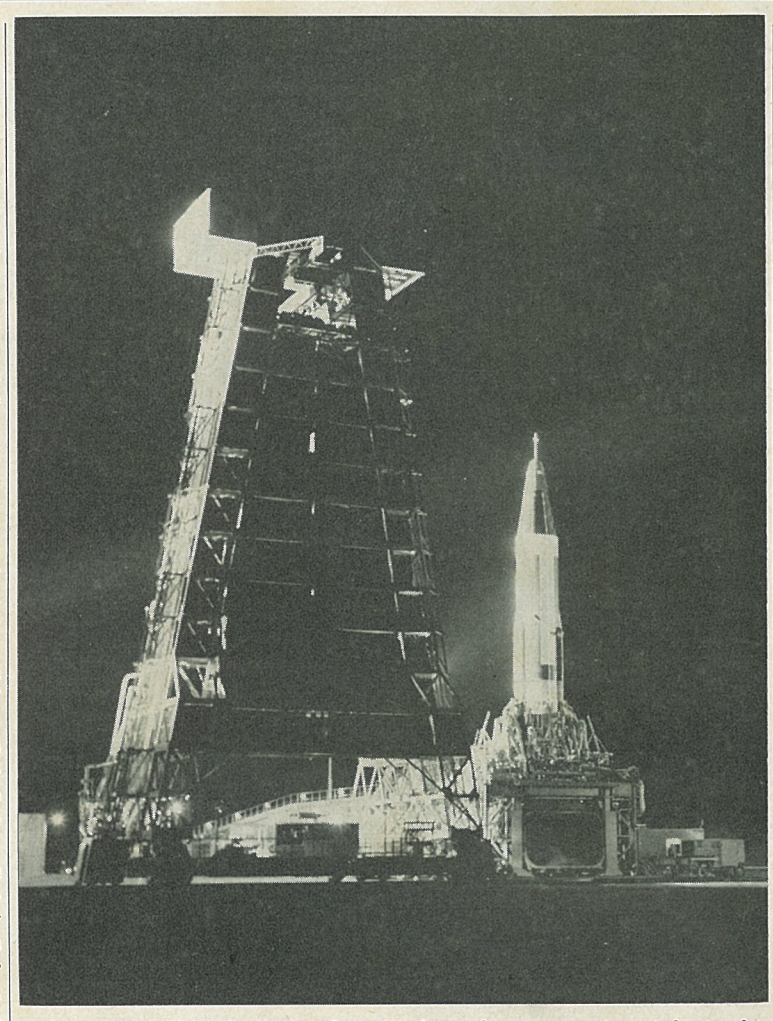
ASTRO PICKING UP OBSOLETE ID CARDS IN SAN DIEGO AREA

Exchange of new Convair Astronautics identification cards for old ones is nearing completion this week in the San Diego area.

Industrial security personnel have been calling on departments at the new Kearny Mesa plant site and at Plant 1 for the past two weeks, picking up old cards as they pass out the new ones.

The task of preparing more than 7,000 new cards in the San Diego area alone began early this year. New photographs and fingerprints were taken of all employees on the payroll. New hires have received the cards as they reported for work.

Cards unclaimed during the initial distribution period are to be returned to the security identification office to be picked up later.



BEAUTY AT NIGHT—Atlas missile makes impressive sight in this night photo taken at AFMTC in Florida. In foreground is service tower which has been rolled away to leave Atlas alone on launching pad.

Shipstead and Caldwell Seeking Club Office

Maybe a little more subdued than usual, but still filled with fun and spirit, the "political" season has swept down on Convair San Diego and its Management Club.

Naturally, it's election time and 14 club offices are to be filled during the forthcoming election. Voters will select favorites from a field of 37 candidates.

There are two aspirants for the presidency, Ed Caldwell of Dept. 188 and Lee Shipstead of Dept. 192. The other five elective offices, plus board of control posts, have a field of from three to eight candidates each.

Gone this year is the practice of associating candidates with specific slates which in the past produced such parties as the "Good Times" and "You Never Had it so Good" along with some colorful campaigning. However, nomination night at the Balboa Park Club April 16 was not without fanfare. As the two candidates for president were introduced they were led to the platform by a band. Shipstead (6 feet 5, 250 pounds) rode in a little red wagon. Caldwell, aboard a tricycle, pedaled merrily behind.

Lee House of the nominating committee read off the names of candidates and each came to the platform. Only the presidential candidates made speeches.

The first vice president chair will be filled this year by either H. C. Courington (Dept. 8), F. H. Nipper (Dept. 233) or P. D. Ferrara (Dept. 6).

G. A. Grossaint (Dept. 400), R. B. Grimes (Dept. 204), W. S. Nader (Dept. 131) and L. F. Tubbs (Dept. 34) are running for second vice president. Tubbs was nominated from the floor.

Recording secretary candidates are M. C. Nesbit (Dept. 188), N. Grand (Dept. 4) and I. B. Jenkins (Dept. 31). Running for financial secretary are T. J. Moffett (Dept. 6), R. E. Gunnerson (Dept. 91) and R. W. Dill (Dept. 5). Treasurer will be either B. J. Wood (Dept. 93), E. J. Foster (Dept. 267), L. W. Stamper (Dept. 180) or P. A. Hamm (Dept. 8).

Ed Caldwell

Lee Shipstead

Voters will elect four board of control members for one-year terms. Candidates are G. W. Shoupe (Dept. 406), R. L. Williams (Dept. 215), M. L. Sweeney (Dept. 292), N. R. Keough (Dept. 31), G. G. Baker (Dept. 137), R. A. Davis (Dept. 223), L. G. Lawson (Dept. 188) and J. C. Connor (Dept. 400).

A single two-year board seat will be filled by H. F. Williams (Dept. 6), J. R. Benedict (Dept. 232), J. R. Chapin (Dept. 271) or R. F. Greggs (Dept. 400).

There are three board seats at stake for three-year terms. Candidates include C. L. Ambler (Dept. 3), D. E. Palumbo (Dept. 267), G. H. Woodberry (Dept. 192), E. R. Fink (Dept. 25), J. F. Ames (Dept. 102), C. T. Boyle (Dept. 280) and W. J. White (Dept. 34), a nomination from the floor.

SD Management Club Will Meet May 14

Convair San Diego Management Club will stage its annual "Education Night" program May 14 at the Caribbean Room, El Cortez Hotel, under the sponsorship of contracts and customer services departments.

Dr. William C. Rust, president of California Western University, will be the principal speaker. Featured will be the announcement of election returns, plus awarding of the club's annual scholarship awards.

F-106s, B-58 Visit Washington For Armed Forces Day

A pair of supersonic Convair F-106A interceptors are now scheduled to clear Edwards Air Force Base Friday (May 2) for a transcontinental flight that will be climaxed by two major public appearances in a single week.

The first will be May 6-7 at Eglin Air Force Base, Fla. where hundreds of invited civic and military leaders will view a special Air Force firepower demonstration.

Next comes a special observance of Armed Forces Day May 10-11 at Andrews Air Force Base near Washington, D. C.

At each of these shows one F-106A will take part in aerial operations, while the other will be on static display marking the first occasion the public has seen the F-106A at close quarters.

J. K. Stuart, Convair engineering test pilot at Edwards, is slated to fly one of the F-106As on the tour. Lt. Col. Howard M. Lane, chief of fighter operations at Edwards, will fly the other.

The F-106As will be only a part of the Convair products to be viewed around the country during the annual Armed Forces celebrations ranging from May 10 through May 18 (at the option of local installations). Hundreds of Convair F-102As are scheduled to appear at air bases across the nation in flight and on static display. Too, several hundred posters showing Convair products will be distributed as part of the observance.

Also slated for a major role in the show at the nation's capital is the Convair B-58 supersonic bomber, which will make a spectacular takeoff and flyby. Other B-58s will be on display at Edwards AFB, Carswell AFB, Tex. and Kirtland AFB, N. M. It will also take part in Eglin's firepower show.

Terrier guided missiles will be viewed at a Marine Corps show set for the U. S. Naval Ordnance Test Station at China Lake, Calif., May 17.

Closer to home, the Edwards AFB observance (May 18) will include an F-102A, and F-106A and a B-58. The interceptors will take part in an air show at 1 p.m. The base will be open between 11 a.m. and 4 p.m.

At George AFB near Victorville F-102As will be part of an open house to begin at 11 a.m. May 17. An air show will be held that afternoon.

Many bases will show Convair-built transport and training planes in static display.

Off-Site Offices Diminishing

Convair off-site locations around San Diego, pressed into service to ease the "growing pains" of two major divisions, are gradually diminishing in number, a survey showed this week.

At one time during the past two years some 17 "emergency" facilities were in use by Convair Astronautics and San Diego Divisions. They ranged from office space to complete warehouses.

(Not included are locations like the seaplane ramp and interceptor field operations centers of San Diego and the Point Loma and Sycamore Canyon test sites of Astronautics.)

Astro's activation of its own plant on Kearny Mesa has made it possible to release some of these areas and the new Rose Canyon materials depot now accommodates many previously working off-site.

San Diego Division began releasing some areas as early as last fall. Offices in the Airport Terminal, on Reynard Way and the Accounting Corporation Bldg. have been dropped. The Posey Bldg. on India St. will be released May 31.

Eagles Hall on Eighth Ave. is

(Continued on Page 2)

Last Minute Boost From Plant 2 Saves SD Blood Program

Support when it was needed the most prevented cancellation of the Convair SD blood program, thanks to Plant 2 Factory Manager F. H. McLaughlin, his supervisory personnel, and the 142 men and women who donated blood April 17.

Visits to the bloodmobile cancelled a deficit of about 45 pints in the Convair account. Convair's credit, however, is still below the normal 30-day usage level of 125 pints.

An opportunity to build up the blood reserve to a safe margin will be provided May 29, when Plant 1 engineering personnel will be asked to volunteer.

It's Baseball Ticket Time Again! Enter Now For Free CRA Drawing

First Convair San Diego baseball drawing of the year, this one for free CRA tickets to San Diego Padre home games during May, takes place on Friday (May 2), deadline for initial entries.

For a number of lucky Convair people, this will mean "take me out to the old ball game at the NEW ball park," as the Pads host Phoenix, Seattle and Portland in respective series at their new Westgate Park home.

Entries must be deposited in boxes being placed today (April 30) in employee services offices at Plant 1 (Bldg. 32) and Plant 2 (Bldg. 4). An entry consists of a sheet of paper bearing the person's name, clock number, department number and location, and his or her plant telephone extension.

Only one entry per individual is permitted, and any entry not containing all the information asked for above will be disqualified.

Astro Tickets, Too!

A separate drawing for Astronautics people at Kearny Mesa will be held, with the same rules and deadline applying. A box for entries will be located there in the employee services office, Bldg. 1. Astronautics personnel still at Convair SD may deposit entries in the Plant 1 employee services office box.

All Palmdale 'Family Members' Reunited in New Facility Now

Convair Palmdale's family is at last reunited with all members settled in the new "homestead."

The Butler area on the south side of U. S. Air Force Plant 42, Palmdale, once a beehive of activity housing as many as 44 F-102s at one time, is now deserted. The last skeleton force of 20 men and the seven bailed aircraft they have been operating from the north-south runway, crossed over the field Friday (April 18) to join their "brothers" in the new facility at the north side of the field.

The Butler area has been placed on a standby basis with Convair to retain accountability until disposition is made of the few inactive aircraft still housed there, according to F. J. Parker, chief of operations-services. One quonset hut is still in use for material storage.

Activated in the spring of 1956, the area got its name from the two big Butler hangars housing mechanical and electronic operations on F-102s. In the early days of operation, the quonset-type metal hangars were often referred to as Palmdale's "wind tunnels" as the desert winds swept in one open end and out the other. Later the ends were partially filled in to cut down the wind sweep.

During the peak period at the Butler area, it was the base of operations for approximately 1,200 employees, the number gradually dwindling as various areas of the new facility were activated and employees and planes were shifted into the new buildings.

The bailed aircraft, four F-86Hs, and one T-33, B-57 and F-86F, are now located at the south end of the flight release area at the new facility, and the last 20 men who stuck out their period of isolation in the Butler area are "in the fold."

Off-Site Offices Diminishing

(Continued from Page 1)

to be released June 17. The motion picture photography section there will move to the fourth floor of Bldg. 19, while central duplication will take over quarters in Bldg. 1 along the "C-line" mezzanine.

San Diego will continue to utilize off-site warehouse space at the Melrose, Rosecrans and Hazard warehouses. Customer services personnel will remain for the present in the Fordham and Midway Bldgs.

Astronautics has taken over completely two off-site centers once used by San Diego, the Westgate warehouse and the Mallen Building. The former will be retained as a materials center and will include some of the equipment and personnel now working at the Vocational School and the Fifth and K warehouses, both to be released this year. Mallen Bldg. will continue as an office area for part of the product support operation.

An area known as Crownair Hangar at Montgomery Field is to be retained for the time being.

In the works is the acquisition of the Barnard School on West Point Loma Blvd. for a customer training site.

Astro 'Open House' Now Set For June 21

That long-planned "open house" celebration at Convair Astronautics' new Kearny Mesa plant site is now set for June 21, a Saturday.

Most of the area at the new site will be open for inspection by the families of employees as well as the general public.

Further details will be available at a later date.

SD Employees Store Adds Hosiery Wares

Convair SD women get a break with the addition of hosiery to the stock of the Employees' Store, on Pacific Highway across from Plant 1.

Price range of the brand-name hose will be from 79 cents to $1.19, approximately one-third below retail prices, said W. E. Rickman, store manager. A variety of sizes, popular colors, and weights is available.

A new gift line of ceramics, including figurines, ash trays, etc., is now on display at the store.

Soprano to Appear In Special Recital

Soprano Eva Romano (wife of Armand Goldansky of Astro's Dept. 150) will appear in a special recital at 8:15 p.m. Sunday (May 4) at the House of Hospitality, Balboa Park.

The program, held in conjunction with National Music Week, will be presented in four languages.

Miss Romano is a native of Mexico City. She has sung with the Mexico City Opera Academy as well as on radio, operatic and television programs. This is her first appearance in the United States.

Construction at Halfway Mark On New Highway 101 Overpass

Construction work has passed the halfway mark on the Washington Street-Highway 101 traffic interchange, including widening of a 1.12-mile stretch of Highway 101 north of Convair San Diego's Plant 1.

According to Mark Darrough, resident engineer for the California Division of Highways, the project is expected to be completed early in November, about a month ahead of schedule. Recent heavy rains caused construction delays of a week.

About the middle of May, Washington Street will be closed for a five-hour period one night to permit removal of temporary steel girders now supporting the overhead structure, Darrough said. He added that this work will start around 8 p.m., and explained that a temporary detour will be in operation to allow passage of cars at frequent intervals.

The bridge for overhead traffic across Washington Street will be open for use early in August.

Darrough said that cooperation shown by Convair personnel to date has helped to expedite completion of the project. Parking areas over which the main detour now passes will be restored sooner than previously anticipated.

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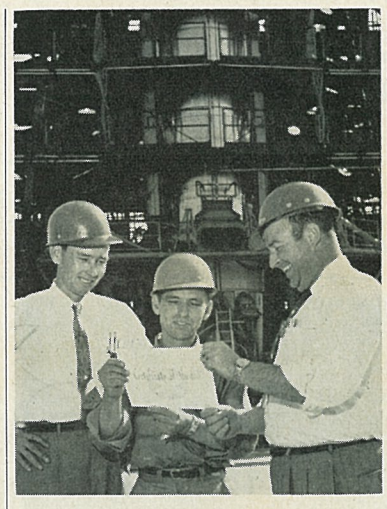
FW Editorial Offices, Col. 71-C, ext. 8245. Mailing address: Convairiety, Convair, Fort Worth, Texas. Telephone PErshing 8-7311. Staff: Bob Vollmer, news editor; Horace Craig, Bobbie Sue Marr.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8. Staff: James Combs Jr., news editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.



"TRAILED" — Check for Employee Suggestion award, earned while he was with SD Division, finds R. L. Lucas, even though he has transferred to Astronautics. From left, Foreman John Campbell, Lucas and E. J. Huntsman, chief of operations support at Sycamore. Co-winner of award was P. L. York who remains with SD in field operations.

Check 'Follows' New Astro Man

Convair Employee Suggestion awards have a knack for spanning "gaps" between Convair divisions R. L. Lucas of Convair Astronautics' Sycamore Canyon test base found this month when he pocketed checks for $310.

Lucas was working for San Diego Division's F-102A field operations two years ago when he and P. L. York teamed up on an idea for re-design of F-102A throttle quadrants. Their suggestion helped eliminate expensive engine-run time by allowing throttle adjustments from the cockpit rather than shutting down for readjustments.

The idea was approved, initially by Eddie Huntsman, then field operations general foreman. By coincidence, it was Huntsman, now chief of operations support at Sycamore, who presented the award check to Lucas. A similar check also went to York who is still with SD field operations.

Boy and Girl Chosen For $1,000 Awards From SD Manage Club

Winners of the 1958 Convair San Diego Management Club scholarship contest are John M. Starr and Nancy May Seid.

Nancy is the daughter of James K. Seid of Dept. 31. A senior at San Diego high school, she has been active in the Girl's League, various clubs, the California Scholarship Federation and this year won the Betty Crocker homemaking award.

Starr, a Grossmont High senior, is the son of M. O. Starr of Dept. 6. He has taken part in band, science and church activities as well as future teachers groups.

The two winners will receive awards of $1,000 each.

Runners-up who will receive $100 Savings Bonds are: Robert Beaudry, son of S. B. Beaudry of Dept. 6; Kitty Irene Perry, daughter of Dorothy M. Perry of Dept. 217; Russell Husted, son of William E. Husted of Dept. 573; and Ruth J. Baron, whose stepfather, Frederick T. Brodell works in Dept. 532.

Nell Karpinsky Wins SD County Golf Title

Nell Karpinsky (Dept. 188-8 Rose Canyon) added new laurels to a long list of golfing triumphs this month when she earned the title of San Diego County Women's Champion.

Competition was held at the Rancho Santa Fe, Flying Hills and Mission Valley courses April 15, 16, 17. Mrs. Karpinsky scored a 254 for the 54 holes, two strokes under her closest competitor.

She received a silver tray, and a San Diego County Golf Association personal pin.

More Work on Plant 2 Buildings Will Start Under New Contract

Additional rehabilitation of buildings, yard areas and installations at Convair San Diego's Plant 2 (Air Force Plant 19) will start in the near future under a new $937,164 program.

Among the projects to be accomplished are: continued resurfacing and rehabilitation of roofs of all buildings, and rehabilitation of transformer vaults and ventilation fans necessary to insure forced draft ventilation.

Continued expansion of air and steam facilities will include installation of a high pressure boiler and two 14,000 CFM air compressors, which will supply the factory with additional heating facilities and air supply for production requirements.

Flood and yard lights will be converted to increase lighting from the present 2.5 footcandle security type to at least a 5 footcandle capacity, in yard areas used for production work. Additional lighting in manufacturing and office areas will also be provided.

Main water lines and storm drains will be rehabilitated, and crane rails and protective seal coating of yard areas will be restored.

More to Move In Renovation

Next month Bldg. 19 gets into the "act," major interior work begins and about 400 employees will move as the $2½-million renovation of engineering facilities at Convair San Diego gains momentum.

The second floor of Bldg. 19 is now largely occupied by engineering. Part of the furnishings design section there is slated for movement to the second floor of Bldg. 51 in May. Meanwhile, some Air Force offices have been relocated to make way for over 100 members of the "foreign legion," alien engineers working off-site, who will move into the plant toward the end of May.

In mid-May about 200 members of experimental planning, test laboratory design, planning and estimating and specifications shift from their present locations to the second floor of the Bldg. 5 annex.

Major interior work is now slated to begin Monday (May 5) in an area of 32,400 square feet vacated by several hundred persons over the past month. Total personnel moved to date approach 1,000.

Exterior work on the program has been in progress for about two months.

Next major personnel moves will come in July.

MAGIC ACT SIGNED FOR CRA BREAKFAST

Last-minute program change for the annual Mother's Day breakfast will see a magician's act bewildering Convair SD mothers and children Sunday (May 4) in the Lafayette Hotel Terrace Room.

"The Amazing Armstrongs," magic combo, has been obtained to replace Mrs. Emmy Les Tina, now on an European trip, said Martha Woodberry, CRA commissioner of women's activities.

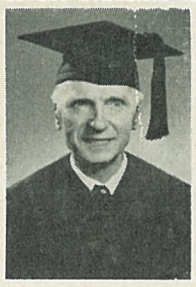
The ample 9 a.m. breakfast will be open for the first time to sons as well as daughters.

A limited number of tickets, at $1.25 each for adults and $1 for children under 12, are available at SD and Astronautics employee services.

Convair Man, 67, Gets Sheepskin

School days go on and on for Frans E. Sundelin (Dept. 110-SD) who has spent the last 13 years attending night school in pursuit of an education.

Sundelin, 67, was one of the oldest students to graduate from San Diego Junior College when he completed his credits for an associate arts degree in tool design in January.



F. E. Sundelin

He will not be able to attend the June graduation exercises when diplomas are handed out as he will be making a long-delayed visit to his native Sweden to visit his 89-year-old mother at Norrbotten.

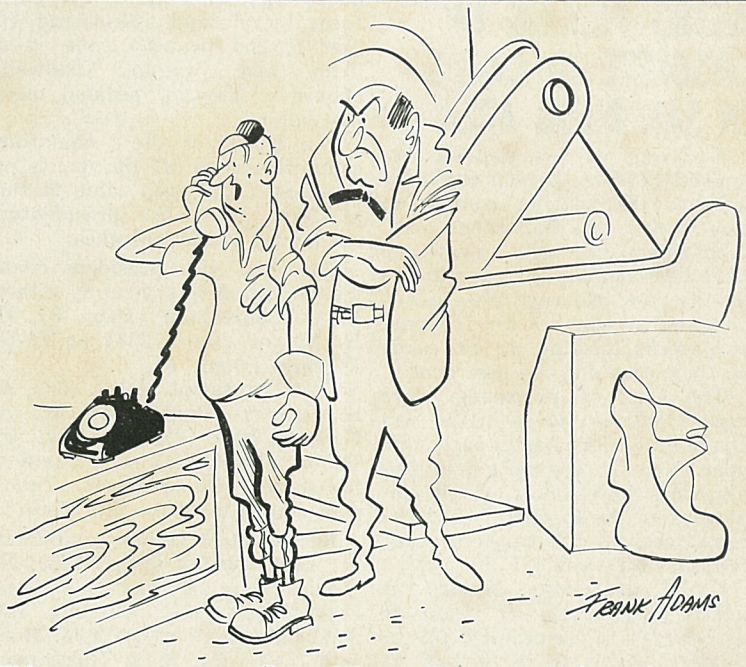
It has taken Sundelin 5½ years to complete his freshman and sophomore courses under the Junior College's tool engineering program. But the long stretch of night work was well worth it, he says. He intends to keep right on until he earns his bachelor's degree, no matter how long it takes. With the emphasis on science in present-day education, he is seriously considering majoring in mathematics or some allied field.

For the next few months he will take a breather before enrolling in more college courses this fall.

Although he had had one year of high school and two years of business school in Sweden before coming to the U. S. in 1922, Sundelin was forced to start over again in this country's school system.

He attended night classes for 7 years in Detroit, Mich., for high school credits, completing the last requirements after moving to San Diego in 1952. During his 25 years with the Detroit city transportation system, he not only worked toward his high school diploma, but took enough business administration courses through extension work to almost qualify him for a university degree.

He joined Convair, first in Dept. 101, six years ago. The last four years he has been in Dept. 110.



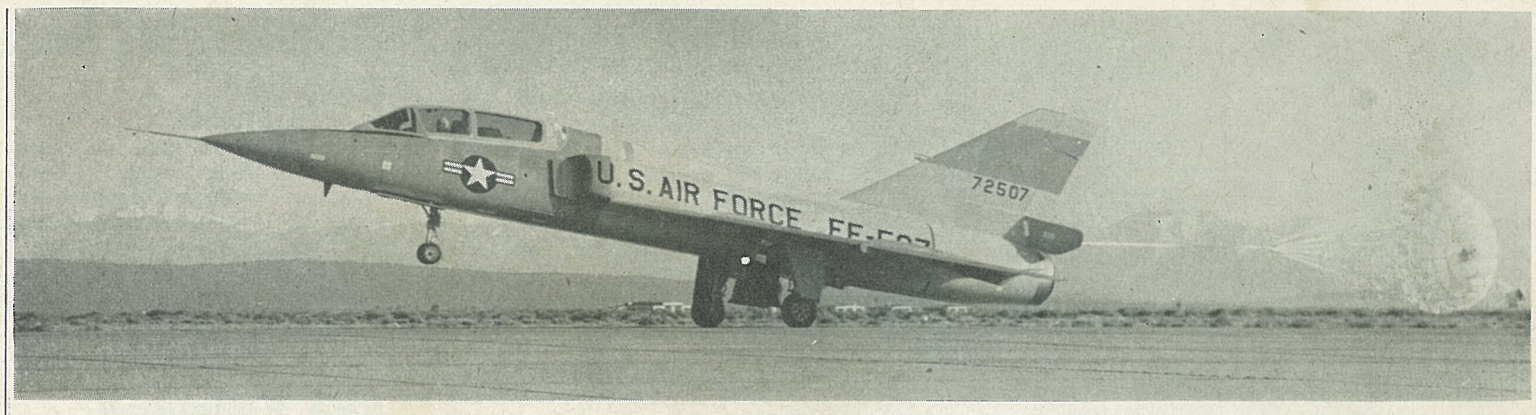
"Hang on a minute, will ya, Bill . . . I've got a little work to do."

Crow Joins Egg Hunt, Limits Self to Pink

The aerial thefts of a crafty crow, partial to pink, threatened for a time to scramble the CRA Easter egg hunt at Convair Fort Worth's CRA Area.

As employees hid candy eggs, the crow swooped down repeatedly to whisk them away. A cordon of crow watchers was finally set up to ward off the feathered felon.

During his successful forays, the crow took only pink eggs, said C. J. Hall, CRA manager, ignoring the various other colors.



FIRST FLIGHT—F-106B, two-place version of F-106, is shown here landing after first flight this month at Edwards AFB. Pilot has just "popped" chute to bring it to easy halt. Maiden flight lasted 40 minutes.

Convair Ads Win 'Oscars,' Judged Tops in Nationwide Appraisal

In the annual Awards for "Distinguished Advertising in the Public Interest" appraisal conducted by the magazine The Saturday Review, Convair this year was the only concern to carry away three "oscars."

Considered the top national judging of advertising campaigns, Convair was among 25 to win awards "for distinguished advertising," and in addition was among 13 for best "public service campaigns" and among only eight honored for best "public relations campaigns."

Emmett McCabe, Convair manager of advertising, said the distinguished advertising award is given for overall excellence during the year. The latter two awards were for specific advertisements, one the "Peace is His Profession" ad and the other the "Golden Anniversary of Silver Wings."

(Incidentally, slightly altered to "Peace is Our Profession," this slogan is being used for a large billboard near SAC's Omaha headquarters and also will be used at other SAC bases.)

Selections were made by a distinguished committee of 33, including educators, editors, advertising and public relations executives of national stature.

Convair's advertising agency is Buchanan & Co., Inc.

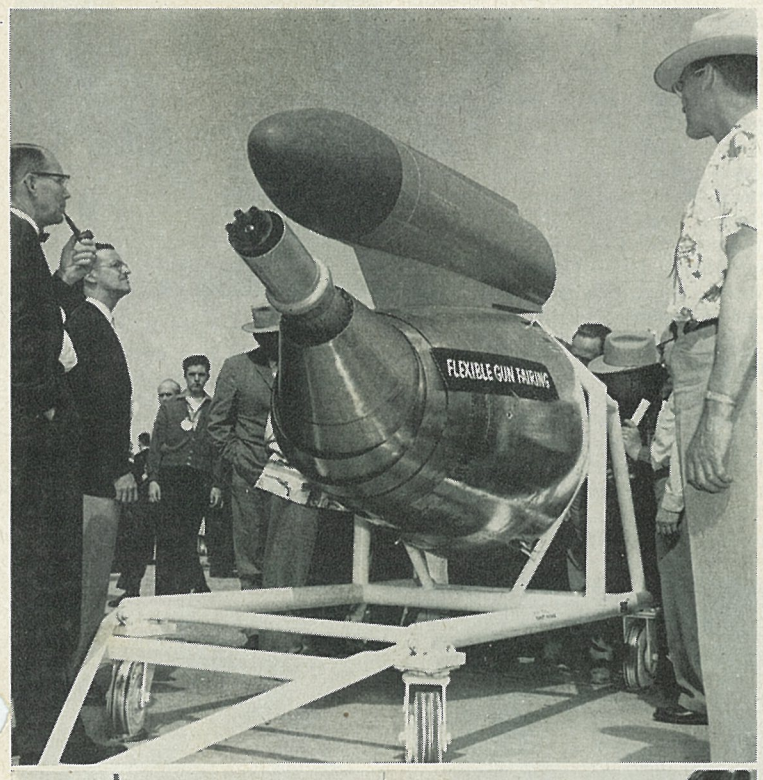
Convair FW Doing Big Business in Plant Tours As 1,500 Pay Visits During Brief Interval

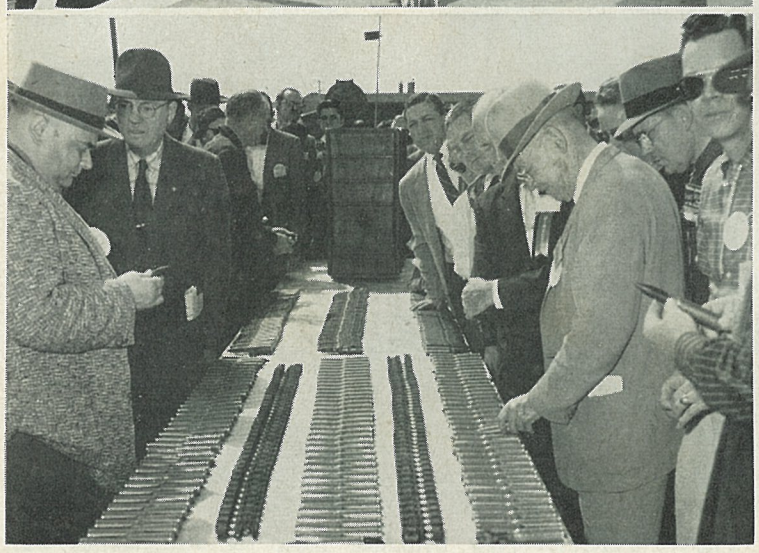
Convair Fort Worth was host to almost 1,500 plant visitors between April 16 and 25. Tours averaged one a day.

Tours included 17 from the Industrial College of the Armed Forces, Washington, D. C.; 400 Fort Worth Public Schools teachers; 300 military and civilian personnel from the National Resources Conference in Fort Worth; and 400 delegates to the National Rifle Association meeting in Dallas.

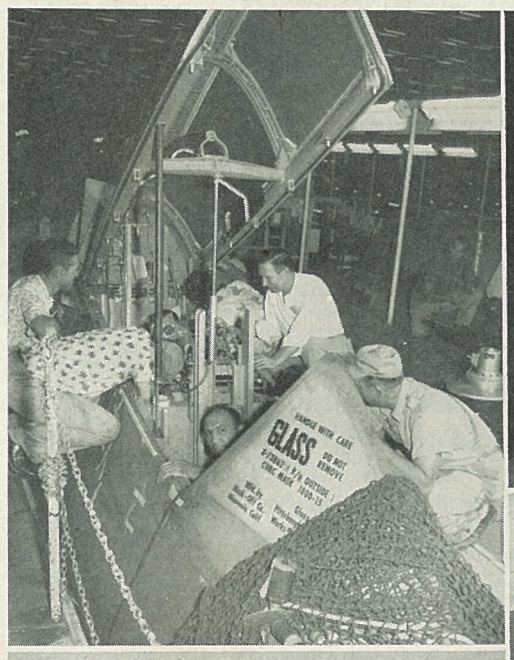
Also, 50 from Southwest Legal Foundation for Nuclear Energy; 70 from a high school trade symposium in Fort Worth; 30 management training students from Perrin AFB; 85 from International Press Institute; 25 AF ROTC students from University of Arizona; and 50 students from the Institute of the Aeronautical Sciences student paper competition.

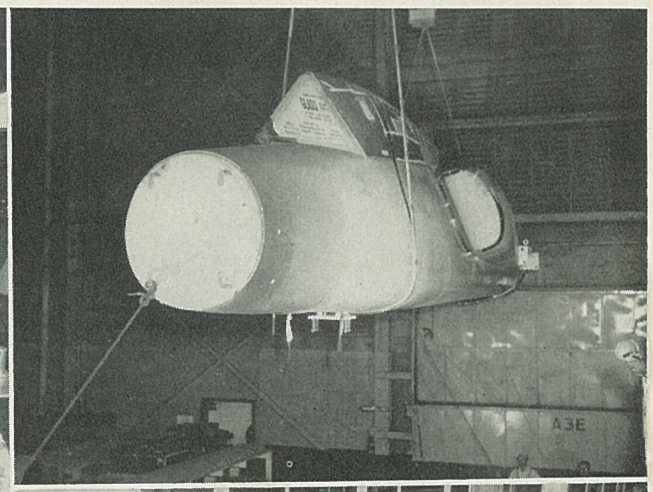
Tours were made April 16, 18, 19, 21, 23, 24, 25 and 26.

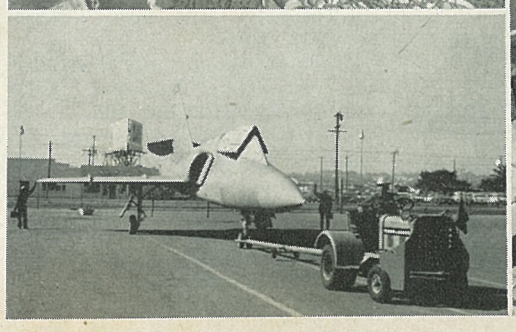


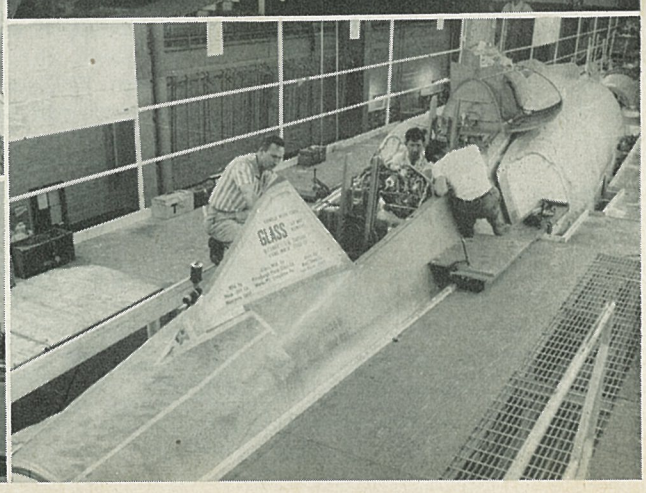


TAIL STINGER—Delegates to National Rifle Association inspected B-58 armament at Fort Worth recently on plant tour. Note "Gatling Gun" type weapon that permits plane to fire all ammunition displayed below in about two seconds.









COOPERATIVE—F-106B requires considerable coordination between SD and FW Divisions, for latter builds forward fuselage. Top left and lower right photos, taken last fall at FW, show finishing touches to fuselage before it was shipped (upper right) to SD for mating. Lower left is No. 1 airplane being shifted from Plant 2 to SD experimental.

F-106B Supersonic on First Flight; Plane Now Passing Phase I Tests

The maiden flight of Convair's two-place jet interceptor, the F-106B, was called "outstanding" this week by John M. Fitzpatrick, engineering test pilot who is putting the plane through Phase I tests at Convair Edwards.

Only "squawk" reported, and Fitzpatrick calls this a minor one, involved the gyro-compass. The entire flight plan for the 40-minute first hop was completed, rather rare for a prototype plane, he explained.

"In general, the aircraft is virtually identical in performance and handling characteristics to the F-106A," Fitzpatrick reported. Although security regulations prevented him from giving a specific answer to questions regarding the airplane's speed, Fitzpatrick did state that the F-106B flew supersonic on its first trip off the ground.

Phase I testing, the initial contractor's test flights to determine safety of the airplane, and preliminary investigation of performance, stability and control, is expected to be completed this month. Within 10 days after the maiden flight, Fitzpatrick had been at the controls of the F-106B for a total of six flights in the test series.

In reviewing success of the first flight, Fitzpatrick and H. L. Sterling, chief of field operations, Convair Edwards, joined in tribute to the ground crew.

"The work required of the ground crew at Edwards (with assistance from SD Dept. 31) presented many problems and tasks beyond normal routine work and all of the men did an outstanding job," according to Sterling and W. L. McBride, foreman of field operations.

"Working six men on a shift, three shifts a day, seven days a week for a month, the men exhibited real team spirit and high morale," McBride stated.

Assistant foremen of the crews were B. F. Murphy and Gordon Monson, first shift; Phil Wonsyld, second shift; and G. A. LaFond, third shift. Monson was singled out for his assistance in correcting electrical discrepancies on the aircraft.

880 Fire Prevention Subject For Paper

R. R. Romanowich of Convair SD engineering will deliver a paper on "Fire Prevention Design Concept of the Convair 880 Pod and Pylon" at the May 19 meeting of National Fire Protection Association in Chicago.

One day of the conference will be devoted to discussion of fire protection for strut-mounted jet power plants.

GROUND CREW—Pilot John M. Fitzpatrick, right, standing, discusses maiden F-106B flight with crew that readied ship. Kneeling in front row, left to right, Frank Troffer, Gordon Monson, J. A. Still, L. Weidert, and W. L. McBride. In back row, A. J. Lillis, B. F. Murphy, R. E. Bradberry, and Ernie Ledger.

MUG AND McSAVE-IT—Above, Roy Ashe, Dept. 5, presents SD Management Club quarterly "Mug" to Wayne Zook of Dept. 95. Below, D. B. Aker, center, manager of industrial engineering, presents McSave-it awards to S. S. Stearns, Dept. 267, right, and C. H. McCullough, Dept. 216. G. K. Cox, Dept. 210, won February award but was not present for photo. Their combined CIP savings so far this year total $106,547.

CRA's New Skeet Range To Open at May 4 Shoot

Convair San Diego's Gun Club will inaugurate its new skeet range at the Gillespie Field Gun Club area next Sunday (May 4) with a special championship shoot.

Twenty-five rounds will be fired over the new range and 25 over the old, for a 50-target aggregate. Shooting starts at 9 a.m. and entries will be accepted up to noon.

High scorers will represent the club in skeet events to be held during the remainder of the year, according to Commissioner Jack Swank, who states that the event is open to all qualified employees and members of their families.

Winners of the April 13 championship trap shoot, held to determine plant champions and team member representatives, were: 1st team—W. U. Gatterman, Stephen Field, Leo Bernitz, H. A. Stroing, and Frank Kemper; 2nd team—E. L. Johnson, K. Dowell, E. H. Horstman, E. Barrett, and J. W. Swank.

The first team represented San Diego in a trap shoot April 20 with Convair Antelope Valley and the Palmdale Fin and Feather Club, and took the high team championship. Each member received a trophy.

Frank Kemper won the high gun trophy in this tri-club shoot, plugging 98 out of 100 targets.

Eight Win Points In Bridge Tourney

Winners of the April master points tournament sponsored by the Convair SD Bridge Club were: Section A—north, D. Meno and D. Stephens; east, west, Mrs. Stover and Mrs. La Vetta Condon. Section B—north, south, A. Bowden and R. Ashe; east, west, R. Combs and D. Johnstone.

Coming sessions of the bridge group are scheduled for May 6, 15, 20, and 29 at the Barcelona Hotel, 4th and Juniper Sts., at 7:30 p.m.

Log Book Entries

Promotions

SAN DIEGO

Promotions and transfers to supervision effective April 14:

Dept. 6-51, Engineering: To asst. research group engineer, L. J. Fogel.

Dept. 15, Customer Service: To service parts administration asst. supervisor, D. J. Abele.

Dept. 215, Machine Shop: To asst. foreman, H. B. Allred, W. T. Green.

Dept. 400, Tooling: To tool control asst. foreman, G. G. Dodd. To tool control foreman, D. B. Tucker.

ASTRONAUTICS

Dept. 250, Plant Engineering: To asst. foreman Group III, Q. Arbo.

Dept. 451, Jigs & Fixtures: To asst. foreman Group V, M. L. Stack.

Dept. 510, Engineering—Model 7 Support Systems Office: To asst. project engineer, A. Calman Jr.

Dept. 545, Engineering—Electronics Function: To asst. design group engineer, M. Bergman, A. D. Risley. To group engineer, W. F. Jungk Jr.

Dept. 549 Engineering—Instrumentation Applications: To group engineer, M. R. Barlow.

Dept. 573, Convair Operations—Sycamore Test Base: To asst. conductor, R. C. Lynch.

Personals

SAN DIEGO

We wish to express our utmost appreciation to our Convair friends, especially those in Dept. 25, SD Plant 1 and Rose Canyon, for the many cards of sympathy, flowers, and kindnesses received at the death of our husband and father, James Carroll, Dept. 25.

Mrs. James Carroll
Sharon and Janet

* * *

My family and I would like to express appreciation to the Convair friends for the many cards of encouragement sent to my wife in the hospital. They have meant a great deal to her.

Archie Gross (Dept. 25)

Births

SAN DIEGO

DAVIS—Son, George Nathan, 7 lbs., 10 oz., born April 4 to Mr. and Mrs. James Davis, Dept. 188-1.

GOOD—Daughter, Deborah Lee, 5 lbs., 15 oz., born April 12 to Mr. and Mrs. Jack Good, Dept. 603-1, Plant 2.

PLETCHER—Son, David Wesley III, 5 lbs., 14 oz., born Feb. 10 to Mr. and Mrs. David W. Pletcher, Dept. 6. Mother is Valeta N. Pletcher, formerly of Dept. 6.

TOLER—Son, Michael Eugene, 7 lbs., 1½ oz., born March 24 to Mr. and Mrs. E. L. Toler, Dept. 266, Plant 2.

WHERRY—Son, Brian Jay, 7 lbs., 7 oz., born April 10 to Mr. and Mrs. W. A. Wherry, Dept. 233, Plant 2.

ASTRONAUTICS

BEDDOW—Son, Bradley William, 7 lbs., 4 oz., born March 26 to Mr. and Mrs. Harvey W. Beddow, Dept. 130-1.

HICKS—Son, Stephen Patrick, 7 lbs., 13 oz., born April 15 to Mr. and Mrs. M. C. Hicks, Dept. 500.

ROBERTS—Twin sons, Spencer Donald, 6 lbs., 12 oz., and Steven Richard, 7 lbs., 2 oz., born March 6 to Mr. and Mrs. Don R. Roberts, Dept. 183-1.

VAN GOMBOS—Son, Richard Alan, 8 lbs., 4 oz., born April 7 to Mr. and Mrs. E. N. Van Gombos, Dept. 591-3.

Deaths

SAN DIEGO

FRANK—Lawrence Ernest, Dept. 25. Died April 18. Survived by wife, Helen M., son, Gary; mother and a sister.

WARD—Clyde L. Dept. 115. Died April 19. Survived by wife, Lillie B.; son, Clyde L. Jr.; and two grandchildren.

WITTLER — William B., Dept. 408. Died April 20. Survived by wife, Katherine S.

ASTRONAUTICS

RICE—Marvin, Dept. 322-9. Died April 20. Survived by wife, Jeanette.

CRA Calendar

(Convair Recreation Association has some 40 activities in operation. For information on SD sports call CRA headquarters, ext. 1245, Plant 1; Astro sports, ext. 1202, Plant 1.)

★ ★ ★

ARCHERY—Regular Sunday shoot and first beginners instruction May 11, Kearny Mesa range.

BRIDGE CLUB—Sessions May 6, 15, 20, 29, Barcelona Hotel, 4th & Juniper Sts., 7:30 p.m.

BOWLING—Summer leagues now forming for SD and Astro.

COIN CLUB—Next meeting May 20, 7:30 p.m., Hearing Aid Society Bldg., 3843 Herbert St.

GARDEN CLUB — Meeting May 14, 7:30 p.m., Floral Assoc. Bldg., Balboa Park.

GOLF—Ind. Rec. Championship May 3-4, May 10-11. See daily papers of May 1 or 2 for pairings and starting times. Inter-division match (SD, Astro, Pomona) May 17 at Circle R course.

GUN CLUB—Skeet championship May 4, 9 a.m., at Gillespie Field range.

MOVIES—Free CRA movies each Friday, 7 p.m., CRA Clubhouse. May 2—"Backlash." May 9—"Ma and Pa Kettle Go to Town."

Reduced-price movies each Friday night at Academy Theater, 3721 University Ave. May 2—"Knights of the Round Table," and "The Silent World." May 9—"The Little Hut," and "Tension at Table Rock."

Each Wednesday night at Abalee Theater, National City. Adults, 25c; children, 10c.

RADIO CLUB—Meeting tomorrow (May 1) at club headquarters on Harbor Drive.

ROCKHOUNDS—Date of next meeting changed to May 15, CRA Clubhouse, 7:30 p.m.

ROLLER SKATING — Skate party for SD and Astro tonight (April 30) at Skateland, Front & G Sts., 7:30 p.m. Cut-rate tickets available at SD and Astro employee services.

SOFTBALL—SD and Astro plant league managers meeting tomorrow (May 1) at CRA Clubhouse, 5 p.m.

SWIMMING — CRA family swim night, Mission Beach Plunge, Saturday (May 3), 7-9:30 p.m. Free tickets available at SD and Astro employee services.

TABLE TENNIS — Monthly tournament tomorrow (May 1) in CRA Clubhouse, second shift, 1 p.m.; first shift, 6 p.m.

TENNIS—First tennis tourney May 17-24, Morley Field, Balboa Park, 10 a.m.-7 p.m. Send entries to Frank Jarlett, 3460 Wightman St., SD (4) before May 15.

WATER SKI CLUB—Salton Sea trip May 10-11. Weekend skiing opens May 17 at Tierra del Fuego, Mission Bay.

WOMEN'S ACTIVITIES—Annual Mother's Day Breakfast Sunday (May 4), Lafayette Hotel, 9 a.m. Tickets at $1.25 for adults, $1 for children under 12, at SD and Astro employee services.

Beginning SD Archers To Get Instruction

Beginning archers will have a chance to learn fundamentals of proper technique at instruction classes given by the Convair SD Archery Club.

First class will be held after the Sunday shoot (May 11) about 3 p.m. at Kearny Mesa range.

Beginners will also be briefed on the various types of equipment suitable for amateur archers, said Al Phipps, club president.

SD Golf Team Wins First Round Robin

Convair SD golfers took top honors in the initial home-and-home matches held Saturday (April 19) with Astronautics and Pomona Divisions, who finished in that order.

Pomona hosted the event, at Gilman Hot Springs. San Diego and Astro will return the hospitality at Circle R Ranch May 17.

Bowlers! There's Room For More in CRA Loops

For the first time in years summer bowling leagues at Convair San Diego are desperately in need of keglers to fill existing vacancies, according to Commissioners Jim Hayman and Mike Brooks.

"Many of our regulars have gone to Astronautics or dropped out for the summer," Hayman said. "We can accommodate as many as 100 bowlers to meet our alley reservations."

Five teams (5 bowlers each) are needed for the Wednesday and eight teams for the Thursday night leagues at Pacific Recreation. Call Catherine Hayman at HO-6-1262 to register.

Seven or eight teams are needed for Friday night action at Tower Bowl. Frances Brooks at HO-9-8793 will accept reservations.

CRA Volleyball Competition Hot

Action in the CRA San Diego volleyball league continues hot and heavy with Dept. 8, Dept. 3 and Flight Test still deadlocked in a three-way tie for first place.

After six weeks of play, these three squads have each dropped one game apiece. Dept. 8 and Dept. 3 play off May 7, and Flight Test and Dept. 8 have it out May 14, final night of tourney play.

Manufacturing Control and Tool Manufacturing balance the scales at 3-2, Computer Lab and Launch Control each stand at two up, three down, Astro Propulsion and Service Parts share a twin win, four loss record, and Astro Industrial Engineering has a single win against five losses.

Play tonight (April 30) at the Balboa Park courts matches Dept. 3 and Astro Industrial Engineering, Dept. 8 and Astro Propulsion, Flight Test and Computer Lab, Service Parts with Dept. 406, and Manufacturing Control against Launch Control.

Hoedowners Elect Jack, Ann Norvall To Club Presidency

Convair "Hoedowners" at Convair San Diego installed a new slate of officers last Saturday night and made final plans for a trek to the Imperial Valley May 10.

Unlike many CRA activities, the Hoedowners name a husband and wife "team" to office. Thus, there are two presidents instead of the usual one.

Installed last week were: president, Jack (Dept. 6) and Ann Norvall; vice president Jerry and Trudy Lyons; secretary, Betty and Wayne (Dept. 6) Smith; publicity, Mary and Ken (Dept. 6) Lemley; and board members, Dale (Dept. 600) and Rhea (Dept. 93) Brownell, Frank and Eleanor Myler.

At least one chartered busload of square dancers will depart at 3 p.m. May 10 for El Centro and the annual round-up of the Imperial County Square Dance Association. The Hoedowners' principal caller, Van Vander Walker, will be a guest caller at the affair.

Mixed Doubles Net Tournament Slated For May 17 and 24

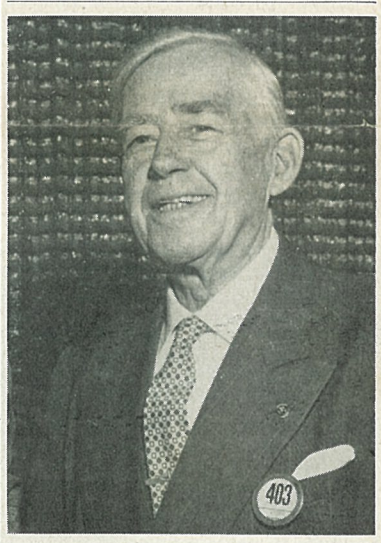
A round-robin, mixed doubles "spring tournament" with a built-in handicap features the Convair SD Tennis Club's season opener at Morley Field, Balboa Park, May 17 and May 24.

CRA Commissioner Chet Dutton announced that play on both days will be continuous from 10 a.m. until about 7 p.m. All CRA members and their families are eligible to compete, and entries may be made via postcard to Frank Jarlett, 3460 Wightman St., San Diego 4, by May 15.

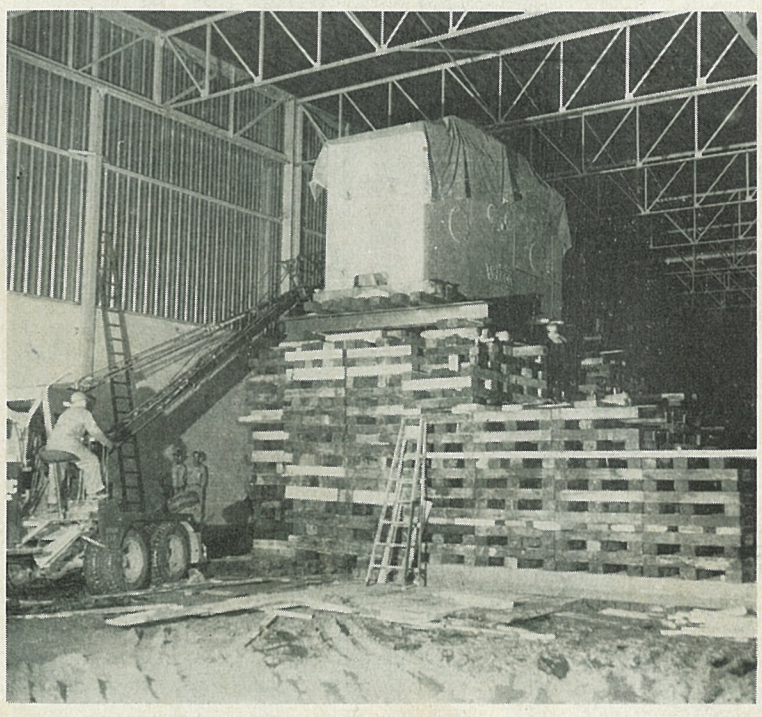
Free sandwiches will be provided, and events for the forthcoming 1958 season will be discussed.

ENGINEER HEADS AFICIANADO CLUB

Rodney Eschenberg, aficianado-by-weekend and engineer-by-weekday in the Convair Astronautics pre-design section, was elected president of San Diego's Club Ole at the bullfighter group's April business meeting.



VETERAN—Fred S. Harger of SD Dept. 403 was congratulated recently on completing his 25th year with Convair. However, he has been a toolmaker for many more years than that (over a half century, in fact). He joined Convair, then Consolidated, in Buffalo.



HEAVYWEIGHT—New hydraulic press for Astronautics was being installed this month. It arrived in three parts, each one requiring a railroad flat car. Head section (or crown) is shown here. Hydraulic jacks and cribbing were used to raise it because ceiling prevented use of cranes.

CRA Sports & Recreation Convairiety

Final Meeting Called On League Softball

Deadline for team entries in the 1958 Convair San Diego and Astronautics shop league softball tournament is tomorrow (May 1), when a final managers' meeting will be held at 5 p.m. at CRA Clubhouse.

To date, 15 teams have registered for league play. This leaves room for a few additional entries, but those interested should definitely attend tomorrow's last organizational meeting to help finalize playing times, locations, line-ups and rules. The league officially opens May 12.

Astronautics players are invited to participate in the San Diego plant league, and are urged to have team representatives on hand tomorrow evening.

Gil Crosthwaite, CRA softball commissioner, again requests men interested in competing in a CRA swing shift league to contact him before the May 1, 5 p.m. deadline.

Skiers Will Try Salton Sea

The Convair SD Water Ski Club opens its 1958 season with a splash the weekend of May 10-11 at the Salton Sea Desert Shores resort, where members will skim the surface some 246 feet below sea level.

"We're taking along our inboard boat," says T. E. Mathews (Dept. 15), CRA commissioner of water ski activities, "and after a day on the water, those whose legs can take it will enjoy an evening of dancing."

After this inaugural weekend, skiers will pursue the sport on Saturdays and Sundays at their regular course on the south shore of Tierra del Fuego, Mission Bay.

The club's next regular business meeting is set for Tuesday (May 20) at the San Diego Women's Club, Third Ave. and Maple St. Door prizes, refreshments and entertainment are scheduled.

Abalone Dive Title Goes to Nicklin

Traditional abalone dive by Convair SD Delta Divers took place at La Jolla April 13, with gift certificates awarded the first three men out of the water with five abalone.

Fastest time was 12 minutes, scored by Chuck Nicklin. In second and third places were Vern Fleet and Alan Jones.

A straggler competition for the largest fish caught was won by Harold Arfman, whose abalone measured 9¼ inches across.

SD Man Successful In Defending Title

If he doesn't stop winning trophies, Nacho Bracamontes (SD Dept. 149) will either have to give up handball or add another room on his house.

Nacho successfully defended his 1957 Class A Singles title in the San Diego County AAU Handball Tournament held April 21 at the Downtown YMCA, with final scores of 21-18 and 21-3.

He'll add his 1958 trophy to some 28 others he already has at home.

442 Exhibit in SD Rose Show

Grand prize of the largest Convair SD Rose Show ever held went to the single rose entry of C. H. Splinter (Dept. 771) at the April 20 flower event staged by the CRA Garden Club.

Sweeping an entry field of 442 exhibitors and 355 rose displays, Splinter, a regular exhibitor, took his first "best of show" for roses. Also an enthusiastic dahlia raiser, he won a "best of show" in the 1956 Dahlia Show.

Entries of two first-time exhibitors were awarded blue ribbons—J. Lewis (Dept. 25) for best three roses, and Carolyn Buman (Dept. 595-3) for best corsage.

Other winners were: six mixed roses, John Jodka (Dept. 93); floribunda, Rose Hart, whose husband is in Dept. 4-1; grandiflora, Ora Carpenter (husband in Dept. 600-0); best arrangement, Ardina Cantrell (husband in Dept. 123).

Twenty-five children, largest number ever to enter a Convair show, submitted original arrangements with first place going to Gerald Garner, son of Leo Garner (Dept. 267).

Judges were Thomas Getz, James Kirk, Dr. J. W. Troxell, and Mrs. A. R. Anderson and Mrs. Getz for corsages, arrangements, and children's divisions.

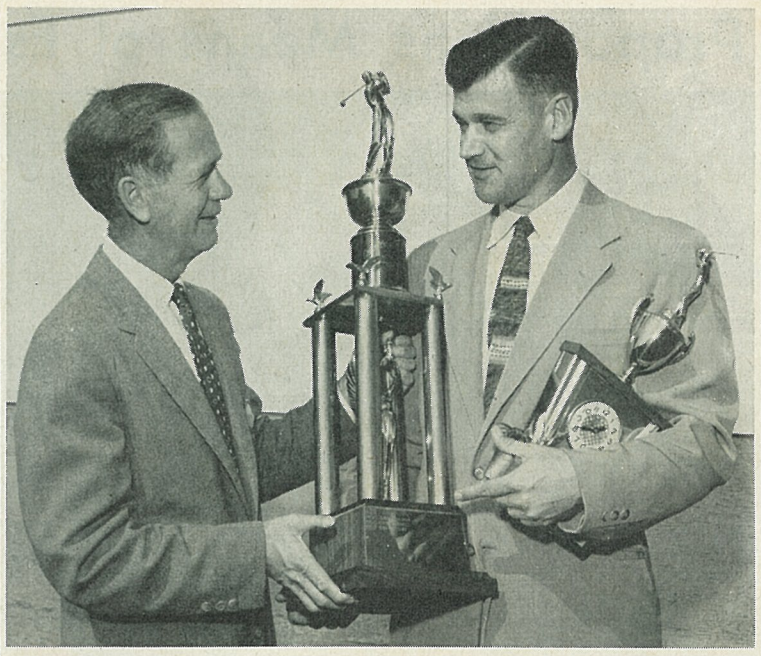
Table Tennis Singles To Start Tomorrow

Monthly table tennis singles tournament will be held tomorrow (May 1) in CRA Clubhouse at San Diego.

Swing shifters will start play at 1 p.m., and day shift will face the nets at 6 p.m.

Winners and runners-up will be presented awards, with first-placers also receiving points toward "player of the year" eligibility.

TWO TITLES—Convair SD's unbeaten tool manufacturing basketball team closed season with two titles, winning plant championship and "Gillespie Field" County Championship. Shown wearing jackets awarded by CRA are, from left: R. L. Asbaugh, W. D. Trapanier, D. W. Cumming, D. H. Simon, F. Alonzo, Coach Sam Shepard, W. L. Trapanier (twin brother to W. D.), M. W. Stilson and Supt. R. S. Watt of tool manufacturing.



SAME SCORE, NEW CHAMP—Walt Bore (Dept. 292-1), left, whose 130 low net won him possession of Yater Perpetual Trophy last year, relinquishes award to Mike Valin (Dept. 280), this year's overall winner. Valin, holding 1958 Champion's Trophy, also scored 130 net.

Four-Time Loser Wins Yater, Shoots Net 130

Perseverance paid off this month with two handsome trophies for Mike Valin (Dept. 280) of Convair SD, overall winner of the 1958 Yater Memorial Golf Tournament and a participant-without-glory in the event each year since its 1954 inception.

Valin's 130 net earned him the Yater Perpetual Trophy and the 1958 Championship Trophy, in play held at the Rancho and Caliente courses April 5-6, 12-13. Runner-up trophy was claimed by Charles Wallman, five strokes back at 135.

Valin toured the Rancho course in 88 for his first round and finished strong with an 84 over Caliente. He plays to a 21 handicap.

Attributing his win to plenty of practice, Valin admits that his game dropped off in 1954 and that he didn't start doing anything about it until earlier this year when he went on second shift at Plant 2. Then he began daytime workouts at the rugged Torrey Pines course in preparation for the 1958 Yater competition.

Flight winners and net scores were: 0-11 handicap division, Danny Ramirez, 140; 12-16 handicap division, Vic Barger, 142; 17-19 division, Jim Robinson, 138; 20-up division, M. C. Val Dez, 135.

Eighteen-hole prize winners in the 0-11 handicap division were: low net, Wayne Hines, 69; low gross, Phil Parker, 77 (April 5-6). Low net, Dick Ransdell, 70; low gross, Ralph Long, 75 (April 12-13).

12-16 division: low net, Ralph Montgomery, 72; low gross, Bill Kenny, 86 (April 5-6). Low net, J. Mullen, 69; low gross, B. Jaynes, 83 (April 12-13).

17-19 division: low net, Lyle Jenkins, 73; low gross, R. M. Wright, 91 (April 5-6). Low net, Ed Kerfeld, 71; low gross, R. C. Welch, 90 (April 12-13).

20-up division: low net, T. P. Solberg, 74; low gross, George Comfort, 97 (April 5-6). Low net, Andy Corrao, 73; low gross, A. Simington Sr., 98 (April 12-13).

SD Quality Control Sells Dance Tickets

Tickets to the annual spring dance of Convair SD quality control go on sale tomorrow (May 1) through department assistant supervisors.

B. A. Buffat, dance chairman, said that members of the Quality Control Club may purchase tickets at the special rate of $2 per couple. Price for non-members and guests is $3 a couple.

Annual affair will be held Saturday (May 24) at Craftsmen's Hall, 3909 Centre St. Wally Ford and his orchestra will play for dancing from 8 p.m. to midnight. Refreshments and a raffle will be held.

Sponsoring this year's dance are Depts. 288-2 and 288-8, Bldg. 1 inspection at Plant 2, SD.

Broadway 'Doubles' In Pistol Match

B. L. Broadway, (Dept. 603), took master class honors for the third consecutive time by scoring 292 in the .22 caliber police course at the Convair SD Pistol Club's April 13 match.

Broadway made it a double victory by also placing first in the .22 caliber short national match, with a 288.

Expert class winner in the police course was Ralph Picard, (Dept. 31), 287; sharpshooter class, Ralph Benson, 269; and marksman, Joe Miller, (Dept. 771), 259.

Placing second and third in the short national match were Russ Oliver (Dept. 130-1), 286, and Bill Geopfarth, (Dept. 772), 280.

Astro Considering Twilight Golf Loop

Interest in an Astronautics twilight golf league has been gaining momentum, Commissioner Art King reports.

Departments or groups interested in entering four-man teams in the round-robin affair are asked to call King at ext. 448 at the new site. Interest will dictate future plans.

AFMTC ENTRY—Astro's AFMTC girls' bowling team poses at Cocoa Beach alley. Currently, they are in second place in league, three games out of first. Standing are Bobbie Waddell, team captain; Maria Metcalf, Dot Vendeville; seated, Grayce Wilson and Grace Young. Grayce Wilson, incidentally, won "all events" in recent city tournament. Maria Metcalf placed sixth in state women's tournament last month.

Complete CRA Program For Astro Planned

Convair Astronautics' new CRA Employees' Council this month launched an all-out drive aimed at providing a complete recreational program as quickly as possible.

The 20-man Council appointed by Dick Mitchell, Astro's employee services chief, elected to hold meetings twice monthly, approved a new set of by-laws, set up working committees and reversed itself on an earlier plan to have a group of officers serve for only three months. Instead, the representatives approved by acclamation the extension of their terms to one year.

Serving as Astro's first CRA president is Art Munson (Dept 535). Art King (Dept. 150) is the new vice president, Jack Boyle (Dept. 321) is treasurer and Joe Frivaldsky (Dept. 130) is secretary.

Munson immediately appointed three representatives, Hank Brenner, Marty Stutz and Ezra Johnson, to serve with Mitchell, Boyle and himself as an executive committee. The latter appointments conform with by-laws.

One of the first steps taken was the naming of a committee to begin planning for the new 25-acre recreational area adjacent to the new Kearny Mesa plant site. Mitchell, Munson, Frivaldsky, Paul Callahan, Bill Connelly and Jesse Taylor are members.

An archery range is now in use at the site and a new junior baseball park is under construction there. Further development of the area will coincide with the availability of funds.

M. V. Wisdom, Astro's manager of industrial relations, spoke briefly to the Council expressing his thanks to the members for their service and pledging his full support of Council decisions. T. W. Wills, assistant to Wisdom, also attended.

J. K. Field, San Diego employee services chief, sat in on the Council's second meeting as a personal representative of R. H. Biron, Convair vice president—administration. He went over the by-laws and gave the Council members a short run-down on CRA activities at Convair SD.

Discussions at the meeting included ideas for joint ownership of various activities with the San Diego CRA Council, adoption of policies and plans and the need for setting up additional committees.

In addition to the officers named, the Council includes the following members with departments in parentheses:

Marty Stutz (450); John Leib (556); L. A. Chambers (150); Paul Callahan (250); Herb Hawthorne (758); Al Martinez (220); H. J. Brenner (310); Jesse Taylor (549); Bryan Weickersheimmer (1-32); E. L. Johnson (771); Bob Ballard (120); Bill Connelly (250); G. M. Coole (180); Bob Carr (573); Bill Dawsey (500); and Willard Brassell (545).

Rockhounds Gather Crystals and Agates

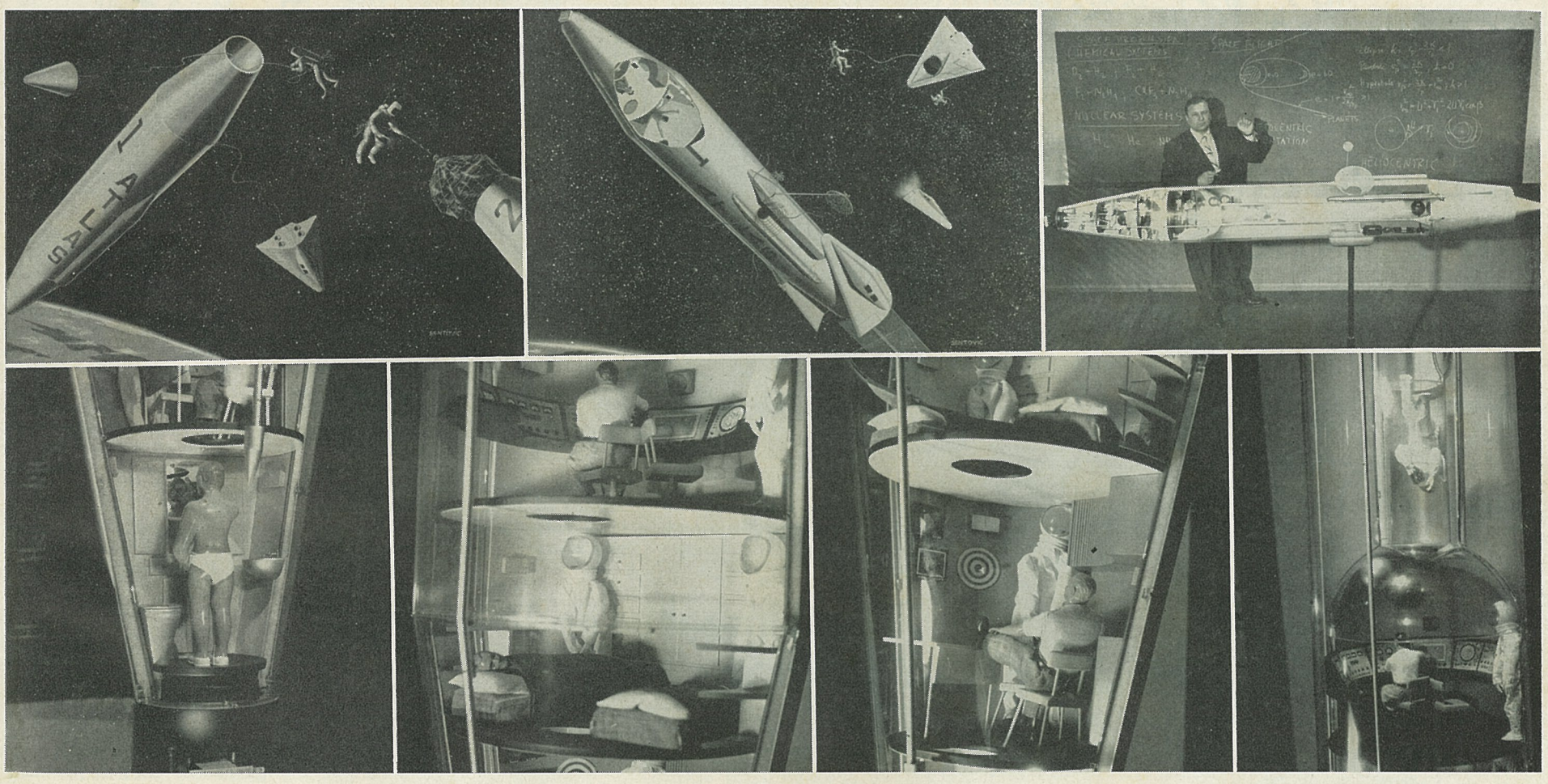
Desert flora and fauna interested Convair SD rockhounds fully as much as likely-looking rock specimens on their April 19-20 weekend trip to Crystal Hill, Ariz., Dan Whorton, CRA commissioner, reported.

Crystal Hill explorers were met on their return trip by more SD rockhounds at Wiley Well, west of Blythe, to enlarge the traveling group to 24. Quartz crystals were turned up at Crystal Hill and agates and geodes at Wiley Well where an overnight camp was established Saturday.

Next SD Rockhound Club jaunt will be to Horse Canyon in May.

The CRA club will change the date of its next meeting to May 15 in the CRA Clubhouse at 7:30 p.m. Conflicting date of the Hobby Show caused the postponement of the regular second Thursday meeting night.

Atlas Missile Proposed as Means of Establishing Station in Space



VERSATILE ATLAS—At right above Astronautics' Krafft Ehricke stands beside model of space station designed for 400 miles above earth. Lower photos show crew quarters. Several Atlas missiles would be required to establish station. First would place in orbit the station's basic structure (figure 1, upper left) and subsequent missiles would supply equipment, personnel, etc. In top left, cargo is being removed from cargo ship (figure 2). Crewmen have arrived in glider which has been launched into space as part of upper stage of modified Atlas. Gliders would be used for return trip to earth.

Trip to Moon Forecast Using Nuclear Vehicle

Preliminary designs for a giant (200-foot), two-stage chemo-nuclear vehicle capable of landing a scientific expedition on the moon as early as 1970 have been prepared by Convair Astronautics.

Krafft Ehricke, assistant to Astro's technical director, outlined the plans before a Jet Age Conference of the Air Force Association recently.

Ehricke pointed out that controlled nuclear energy will make possible nonstop surface-to-surface flights between earth and the moon. And with such a vehicle it would be possible to orbit a large payload around the planet Mars.

Although advancements in the technology of nuclear rocket propulsion are classified, Ehricke indicated he is hopeful current developments will provide practical power plants in the period 1965-70.

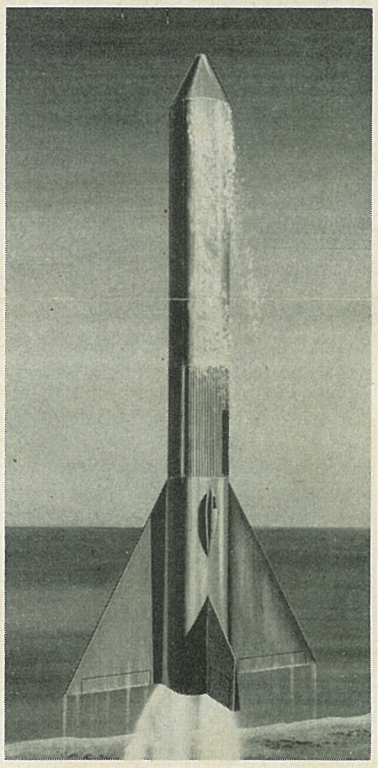
The lower stage of Astronautics' proposed space vehicle would be a delta-wing glider with a 90-foot wingspan. It would be powered with conventional gasoline and liquid oxygen rockets developing 2.7-million pounds of thrust. This manned stage would return to earth following boosting of the second stage beyond the earth's atmosphere.

Power for the second stage, also manned, is nuclear energy.

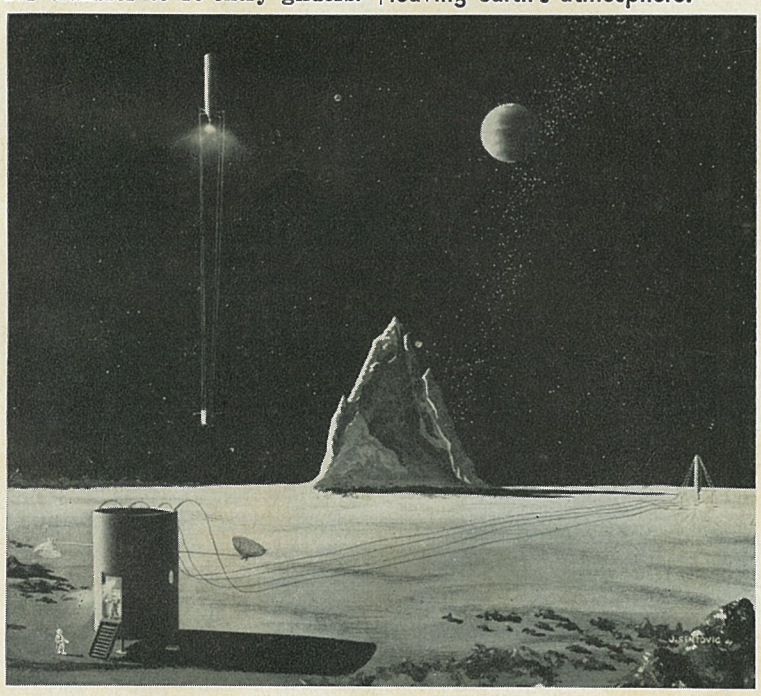
Because of the dangers of radiation, the power source would be separated from a crew-carrying gondola by steel or tungsten cables approximately 1,000 feet long.

In landing, the rockets would approach tail first to lower the gondola to rest, then alight nearby at the end of their cables.

In this manner, a 22,000-pound payload could be deposited on the moon or a 30,000-pound payload put into orbit around Mars, Ehricke said. By the same token, a 15,000-pound payload can land on the moon with sufficient reserve fuel to take off and return occupants to the earth's atmosphere for transfer to re-entry gliders.



NEXT STOP: MOON—Artist's conception of craft envisioned for flight from earth to moon. Bottom stage is rocket-powered glider. Pilot rides in attached capsule. Inside center section is nuclear power plant. Separation of sections would occur after leaving earth's atmosphere.



MOONLIGHT LANDING—At end of flight to moon, this is how nuclear-powered space liner would land. Vehicle could carry 15,000-pound payload with sufficient fuel to return to position just outside earth's atmosphere. Crew would then transfer to re-entry glider to complete round-trip.

Five Years Ago . . .

Following are brief excerpts from Convairiety of five years ago:

★ ★ ★

First T-29D, new line of T-29 trainers for the Air Force, is scheduled to go to final assembly at Convair SD by the end of month.

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Convair's SD "youngest" department, estimating (Dept. 9-5), observes second anniversary.

* * *

Hawaiian Air Lines' third Convair 340 sets new speed record from San Francisco to Honolulu.

* * *

V. L. Summitt, Convair labor relations supervisor, is elected president of the SD Personnel Management Association.

* * *

Dr. J. K. Leverett will serve as Convair FW medical supervisor in absence of Dr. R. K. Miller, who leaves for two-year tour with AF.

* * *

General Dynamics Corporation this month succeeds Atlas Corp. as largest Convair stockholder.

* * *

Tuition refund program is adopted at Convair Pomona for employees enrolled in approved courses, says H. D. Filloon, industrial relations manager.

* * *

Convair Turboliner, Model 240 powered by two Allison T-38 turboprop engines, sets speed and economy records.

Space Station Designed To Orbit at 400 Miles Housing Four-Man Crew

Convair Astronautics last week advanced a plan for establishing a manned experimental space station in permanent orbit using the Atlas intercontinental ballistics missile.

It would be possible to achieve within five years.

The proposal, made by Krafft Ehricke, assistant to Astro's technical director, before a meeting of the National Press Club in Washington, visualized the Atlas in the three major roles.

First, the basic structure for the space station would be a modified propellant tank from the Atlas, fired into space. This stainless steel shell is large enough to house a four-man crew, plus equipment for power generation and testing. It would protect the men and equipment from meteors and temperatures.

Then cargo carriers, built into second stages of the Atlas, would take aloft equipment for the station. Later, other Atlases would supply the needs of the occupants.

Another second-stage vehicle would carry passengers.

The initial four-man crew would begin the work of installing station equipment within the shell. They would transfer needed materials from the first cargo carrier, spinning along with the shell in space. A relief crew would follow, along with additional cargo carriers to finish the station. About a week would be required for the job from the initial firing until the station is habitable, if the proposed height is followed.

A fully-equipped station would weigh approximately 15,000 pounds. It would stretch 106 feet from the crew quarters at one tip to the end of the auxiliary nuclear power installation at the other. The aft portion would be used for equipment storage. Small rockets would provide artificial gravity.

Crew quarters would be within a pressurized rubber nylon structure. Four levels would contain sanitary facilities, a galley and recreation room, sleeping quarters and a control and laboratory room.

Shedding of pressurized suits would be possible only within the crew quarters. An air lock would separate this section from the remainder of the station. Access from the outside would be a simple manhole.

Since the crew would be "weightless," no stairs or ladders would be required.

Logistics data calls for rotation of crews every two weeks at first, later once a month. Cargo ships with an 8,000-pound payload would come up once each year.

Proportional navigation much like that worked out for interceptor missiles would be brought into action to assure the supply vehicles of arriving in space near the station.

Ehricke proposes the station be established 400 miles above the earth's surface. (Vanguard I was 407 miles from the earth at its lowest point of orbit, while Explorer II dropped to 219 miles). Occasional boosts from power supplies would assure the station a long lifetime.

Ehricke feels the Atlas orbital system would prove a boon to man's quest for knowledge of space. It could be a test-bed for equipment, man's ability to survive, and a central training center. Weather information, geophysical and astrophysical information could be gathered there. And the station could be a jumping off point for further space explorations.

While the initial station would be limited to the Atlas tankage, further expansion would be possible through installations of upper-stage tanks from cargo and passenger vehicles attached to the original station.

Space Model Built On Careful Design

Krafft Ehricke's space station ideas were put on paper by Freeman D'Vincent, Astronautics design specialist, and J. M. Sentovic, Astro artist on assignment to Ehricke from Astro product support.

From their plans and sketches (revised and refined many times after conferences with Ehricke) the space station model was built by a Los Angeles firm. The four "artist's conceptions" on this page are the work of Sentovic, typical of a number used to illustrate Ehricke's presentation before the National Press Club in Washington, D. C. last week.